

FILE NOTATIONS

Entered in NID File

☒

Entered On S R Sheet

Location Map Pinned

☒

Card Indexed

☒

I W R for State or Fee Land

Checked by Chief

ALD

Copy NID to Field Office

Approval Letter

☒

Disapproval Letter

COMPLETION DATA:

Date Well Completed

11-22-60

Location Inspected

42-62

OW_____ WW_____ TA_____

Bond released

GW_____ OS_____ PA *L*

State of Fee Land

LOGS FILED

Driller's Log

12-8-60

Electric Logs (No.)

3

E _____ I _____ E-I ☒ GR _____ GR-N _____ Micro ☒

Lat _____ Mi-L _____ Sonic ☒ Others _____

PETROLEUM, INC.**860 PETROLEUM CLUB BUILDING
DENVER 2, COLORADO**

October 19, 1960

Utah Oil and Gas Conservation Commission
310 Newhouse Building
Salt Lake City 11, Utah

Attention: Mr. Robert L. Schmidt

Re: Navajo Contract No. 14-20-603-2052
Proposed Location - C NE SE
Section 9-40S-25E., S.L.M.
San Juan County, Utah

Gentlemen:

In compliance with your request, we are enclosing herewith two copies of intention to drill along with surveyor's plat of the above captioned proposed location.

I trust this is the necessary data for your requirements in order for us to drill the proposed test, but if not, please advise us immediately.

Thank you for your cooperation in this matter.

Very truly yours,

PETROLEUM, INC.


Carl M. Bomholt

CMB:my

Encl.

(SUBMIT IN TRIPLICATE)

Indian Agency _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee _____

Contract No. _____
Lease No. 14-20-603-2052

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL _____	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF _____	
NOTICE OF INTENTION TO CHANGE PLANS _____		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING _____	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF _____		SUBSEQUENT REPORT OF ALTERING CASING _____	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL _____		SUBSEQUENT REPORT OF REDRILLING OR REPAIR _____	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE _____		SUBSEQUENT REPORT OF ABANDONMENT _____	
NOTICE OF INTENTION TO PULL OR ALTER CASING _____		SUPPLEMENTARY WELL HISTORY _____	
NOTICE OF INTENTION TO ABANDON WELL _____			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

October 19, 1960

Well No. 1 is located 1980 ft. from N line and 660 ft. from E line of sec. _____

SE 1/4 Sec. 9 40 South 25 East S.L.M.
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
WILDCAT SAN JUAN UTAH
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 5012 ft., estimated.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

The productive objectives in this test well are the Ismay limestone est. @ 5600' and Desert Creek limestone est. @ 5800', with an estimated T.D. of 5950'. We plan to run a conductor string of 13-3/8" casing from surface to 60' and drill through Navajo est. @ 600'-700' and Wingate est. @ 1200' into the Chinle est. @ 1600' to determine if there is a water flow from Navajo and Wingate formations. If so, 8-5/8" 24# casing will be set in the Chinle and if no water in Wingate, 8-5/8" will probably be set in the Kayenta formation. If the test proves productive, 5 1/2" casing will be cemented at total depth.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company PETROLEUM, INC.

Address 860 Petroleum Club Bldg.

Denver 2, Colorado

By Carl M. Bauhaert

Title District Landman

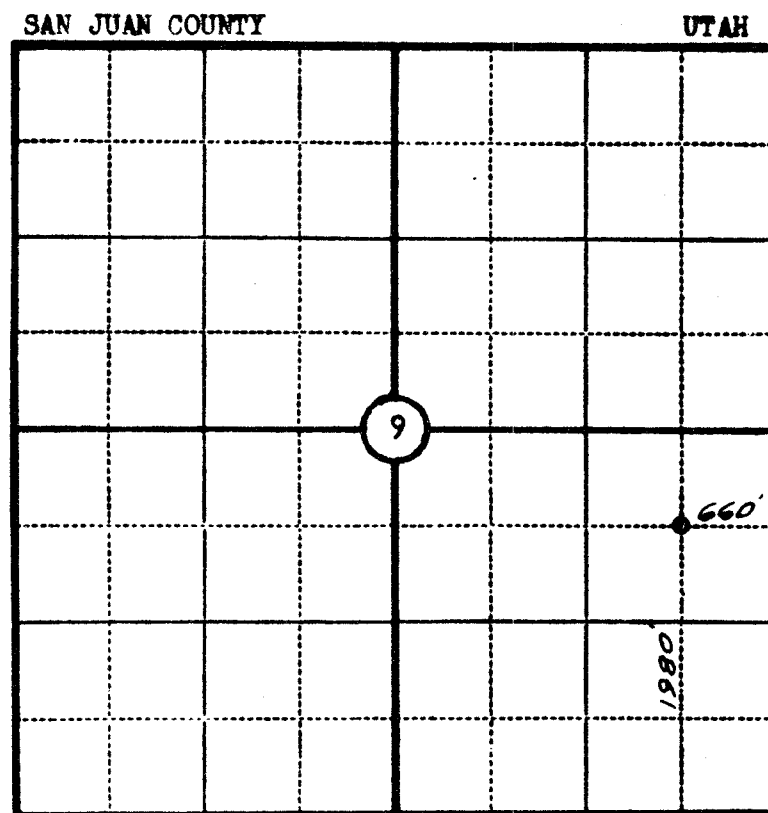
Company.....PETROLEUM, INC.

Lease.....Well No.....

Sec. 9, T. 40 S., R. 25 E., S.L.M.

Location 1980' FROM THE SOUTH LINE AND 660' FROM
THE EAST LINE.

Elevation 5004.0 UNGRADED GROUND.



Scale—4 inches equal 1 mile.

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Seal:

James P. Leese
Registered Land Surveyor.
James P. Leese
Utah Reg. No. 1472

Surveyed 28 September, 1960

SAN JUAN ENGINEERING COMPANY, FARMINGTON, N. M.

October 20, 1960

Petroleum, Inc.
860 Petroleum Club Building
Denver 2, Colorado

Attention: Carl M. Bomholt, Dist. Landman

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. #1, which is to be located 1980 feet from the south line and 660 feet from the east line of Section 9, Township 40 South, Range 25 East, BLM, San Juan County, Utah.

Please be advised that insofar as this office is concerned approval to drill said well is hereby granted. However, this approval is subject to the following condition: That the 8 5/8" surface casing be cemented to the surface or with sufficient cement to place the top of the cement at least 100' above the top of the shallowest water productive formation, or as otherwise requested by the United States Geological Survey.

This approval terminates within 90 days if the above mentioned well has not been spudded in within said period.

Very truly yours,

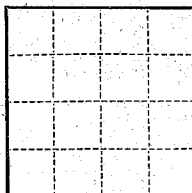
OIL & GAS CONSERVATION COMMISSION

CLEON B. FREIGHT,
EXECUTIVE SECRETARY

CBF:avg

cc: P. T. McGrath, Dist. Eng.
U. S. Geological Survey

H. L. Coonts - OGUC, Moab



(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R359.4.
Approval expires 12-31-60.

Indian Agency

Allottee

Contract

Lease No. 14-20-303-2052

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	X	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

November 1, 1960

Well No. 1 is located 1980 ft. from [N] line and 660 ft. from [E] line of sec. 9

SE 1/4 Sec. 9
(1/4 Sec. and Sec. No.)

10 South 25 East
(Twp.) (Range)

SLM
(Meridian)

WILDCAT

(Field)

San Juan

(County or Subdivision)

Utah

(State or Territory)

The elevation of the derrick floor above sea level is 5012 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Set 13-3/8" conductor casing at 65' with 100 sacks cement.

There was no water flow in Navajo formation.

Set 1200' of 8-5/8" J55 2 1/2" surface casing at 1189' with 700 sacks cement. Cement circulated. Plug down at 7:00 P.M. 10-28-60. WOC 24 hours. Pressure tested to 500#.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company PETROLEUM, INC.

Address 860 Petroleum Club Building

Denver 2, Colorado

By Carl M. Bombaer

Title District Landman

(SUBMIT IN DUPLICATE)

LAND:

Fee and Patented.....☐State☐

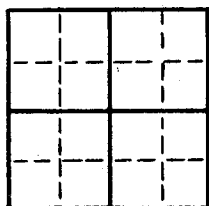
Lease No.

Public Domain☐

Lease No.

Indian☐

Lease No. 14-20-603-2052



STATE OF UTAH
OIL & GAS CONSERVATION COMMISSION
 SALT LAKE CITY, UTAH

SUNDRY NOTICES AND REPORTS ON WELLS

Notice of Intention to Drill..... Notice of Intention to Change Plans..... Notice of Intention to Redrill or Repair..... Notice of Intention to Pull or Alter Casing..... Notice of Intention to Abandon Well.....	X	Subsequent Report of Water Shut-off..... Subsequent Report of Altering Casing..... Subsequent Report of Redrilling or Repair..... Supplementary Well History.....
--	---	--

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

NOVEMBER 22, 1960

 Well No. 1 is located 1980 ft. from S line and 660 ft. from E line of Sec. 9

C NE SE	40s	25E	SLM
<small>(¼ Sec. and Sec. No.)</small>	<small>(Twp.)</small>	<small>(Range)</small>	<small>(Meridian)</small>
WILDCAT	SAN JUAN	UTAH	
<small>(Field)</small>	<small>(County or Subdivision)</small>	<small>(State or Territory)</small>	

 The elevation of the ~~UNGRADED GROUND~~ above sea level is 5004 feet.

 A drilling and plugging bond has been filed with FILED BY MOBIL OIL COMPANY.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important work, surface formation, and date anticipate spudding-in.)

1. SET 13-3/8" CONDUCTOR CASING AT 61' W/100 SACKS CEMENT, 2% CC
2. RAN 39 JOINTS 8-5/8" 24# CASING (1203') SET AT 1189' WITH 600 SACKS POZMIX, 4% GEL, 1# TUF PLUG PER SACK AND 1/4# FLOW-SEAL PER SACK, PLUS 100 SACKS OF COMMON CEMENT, 2% CC. CEMENT CIRCULATED
3. RTD 5990'
4. PLUGGING INSTRUCTIONS:
 CEMENT PLUG FROM 5990'-5600' WITH NEAT CEMENT. MUD UP WITH HEAVY MUD FROM 5600'-2950', CEMENT PLUG FROM 2950'-2800'. MUD UP WITH HEAVY MUD FROM 2800'-1400', CEMENT PLUG FROM 1400'-1140'. MUD UP WITH HEAVY MUD FROM 1140'-30' FOLLOWED BY 10 SACKS CEMENT TO BASE OF WELL CELLAR.

I understand that this plan of work must receive approval in writing by the Commission before operations may be commenced.

 Company PETROLEUM, INC.

 Address ROUTE 2
GREAT BEND, KANSAS

 By R. G. Coshov
 Title DIVISION PRODUCTION SUPT.

INSTRUCTIONS: A plat or map must be attached to this form showing the location of all leases, property lines, drilling and producing wells, within an area of sufficient size so that the Commission may determine whether the location of the well conforms to applicable rules, regulations and orders.

STATE OF UTAH
OIL AND GAS CONSERVATION COMMISSION

AFFIDAVIT AND RECORD OF ABANDONMENT AND PLUGGING

PLUGGING METHODS AND PROCEDURE: --The method and procedure for plugging a well shall be as follows:

- (a) The bottom of the hole shall be filled to, or a bridge shall be placed at the top of each producing formation open to the well bore, and in either event, a cement plug not less than fifty (50) feet in length shall be placed immediately above each producing formation open to the well bore whenever possible.
- (b) A cement plug not less than fifty (50) feet in length shall be placed at approximately fifty (50) feet above and below all fresh water bearing strata.
- (c) A plug shall be placed at or near the surface of the ground in each hole.
- (d) The interval between plugs shall be filled with heavy mud-laden fluid.
- (e) The hole shall be plugged with heavy mud up to the base of the surface string at which point a plug of not less than fifty (50) feet of cement shall be placed.

Field or Pool WILDCAT County SAN JUAN
Lease Name NAVAJO-TRIBAL Well No. 1 Sec. 9 Twp. 40s R. 25E
Date well was plugged: NOVEMBER 22, 19 60.

Was the well plugged according to regulation of the Commission: Yes

Set out method used in plugging the well, the nature and quantities of materials used in plugging, size of plugs, location and extent (by depths) of the plugs of different materials, and the amount of casing left in hole, (giving size, top and bottom elevations of each section of abandoned casing).

CEMENT PLUG FROM 5990' TO 5600' WITH NEAT CEMENT, MUDDERED UP WITH HEAVY MUD FROM 5600' TO 2950', CEMENT PLUG FROM 2950' TO 2800', MUDDERED UP WITH HEAVY MUD FROM 2800' TO 1400', CEMENT PLUG FROM 1400' TO 1140', MUDDERED UP WITH HEAVY MUD FROM 1140' TO 30' FOLLOWED WITH 10 SACKS CEMENT TO BASE OF WELL CELLAR.

Operator PETROLEUM, INC.
Address ROUTE 2
GREAT BEND, KANSAS

AFFIDAVIT

STATE OF ~~UTAH~~ KANSAS
COUNTY OF BARTON

Before me, the undersigned authority on this day personally appeared R. G. COSHOW, known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is authorized to make this report and has knowledge of the facts stated herein, and that said report is true and correct.

Subscribed and sworn to before me this 30TH day of NOVEMBER, 19 60
My Commission Expires: APRIL 14, 1963

Arthur J. White
NOTARY PUBLIC

INSTRUCTIONS: Complete this form, in duplicate, and mail both copies to the Oil & Gas Conservation Commission, Room 140, State Capitol Building, Salt Lake City 14, Utah.

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____

Adapters—Material _____ Size _____

SHOOTING RECORD

[illegible]

TOOLS USED

Rotary tools were used from -0- feet to 5990 feet, and from --- feet to --- feet

Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet.

DATES

Date P & A NOVEMBER 22, 1960 Put to producing _____, 19____

The production for the first 24 hours was ----- barrels of fluid of which ----- % was oil; ----- % emulsion; ----- % water; and ----- % sediment. Gravity, °Bé. -----

If gas well, cu. ft. per 24 hours ----- Gallons gasoline per 1,000 cu. ft. of gas -----

Rock pressure, lbs. per sq. in.

EMPLOYEES

FREEMAN SMITH, Driller

V. J. ROBERTS, Driller T. L. SKOTT, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
			<p>At the end of complete Driller's Log add Geologic Tops. State whether from Electric Logs or samples.</p>
			<p>See attached sheets.</p>

[OVER]

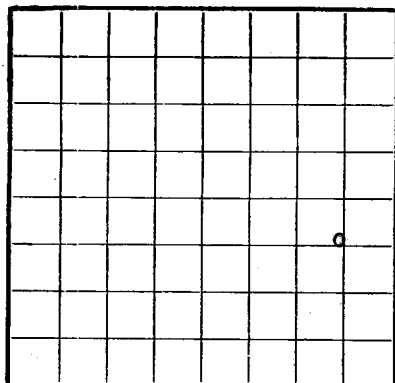
LABORATION RECORD-CONTINUED

DEC 8 1960

SAMPLE DESCRIPTION

Petroleum Incorporated #1 Navajo Tribal

Surface to 700	Siltstone, shale, light green, light grey.
700 - 10	60% sand, pink, sub-round, tight, 20% green waxy shale, 10% sand, white, 10% green shaly sand.
20	50% sand, pink, sub-round, tight, 30% green waxy shale, remainder sample ditto.
30	50% sand, pink, sub-round, tight, 40% green waxy shale, 5% green shaly sand, 5% chocolate shale.
40	60% sand, pink, sub-round, tight, 30% blue-blue green shale, waxy, remainder sample ditto.
50	50% sand, pink, sub-round, tight, quartzose, 35% blue-blue green shale, 10% green shaly sand, 5% maroon shale.
60	30% sand, pink, sub-round, quartzose, 40% blue-green shale, 30% chocolate brown shale.
70	40% sand, pink, sub-round, quartzose, 30% green-blue green shale, 30% chocolate brown shale.
80	50% sand, pink and orange, sub-round, quartzose, 30% green-blue green shale, 10% green shaly sand, trace red shale, 10% choc. brown shale.
90	Sample ditto.
800	50% sand, pink, white, quartz grains, 40% light green-grey shale, 10% chocolate brown shale.
10	40% sand, pink, white, 50% light green shale, 10% choc. brown shale
20	30% sand, pink, white, 50% light green shale, 20% choc. brown shale
30	40% " " " 50% " " " 10% " " "
40	40% sand, (20% white), 50% " " " and sandy shale, 10% chocolate brown shale.
50	20% sand, pink, white, 50% light green shale, 30% chocolate brown shale, trace maroon shale.
60	20% sand, pink, white, 40% blue green waxy shale, 40% brown and red shale.
70	Sample ditto.
80	10% green sandy shale, 20% red siltstone, 70% chocolate brown shale
90	Sample ditto.
900	10% white sandstone, 20% red siltstone, 70% chocolate brown shale.
10	10% green shale, 10% reddish brown sandy siltstone, 80% chocolate brown shale.
20	Sample ditto.
30	90% white, red, sub-round sand, coarse grain, 10% chocolate brown shale.
40	Sample ditto.
50	80% white sand, round, sub-round, 20% chocolate brown shale.
60	70% sand, white, pink, round, sub-round, 30% chocolate brown shale.
70	60% sand, white, pink, round, sub-round, 40% chocolate brown shale.
80	Sample ditto.
90	50% sand, white, pink, round, sub-round, 40% chocolate brown shale, 10% green shale, trace red siltstone.



LOCATE WELL CORRECTLY

STATE OF UTAH OIL & GAS CONSERVATION COMMISSION

Salt Lake City, Utah

To be kept Confidential until _____
(Not to exceed 4 months after filing date)

LOG OF OIL OR GAS WELL

Operating Company PETROLEUM, INC. Address ROUTE 2, GREAT BEND, KANSAS
Lease or Tract: NAVAJO TRIBAL Field WILDCAT State UTAH
Well No. 1 Sec. 9 T. 40S R. 25E Meridian SLM County SAN JUAN
Location 1980 ft. N. of S. Line and 660 ft. E. of E. Line of SOUTHEAST QUARTER Elevation 5004'
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed [Signature]

Date NOVEMBER 30, 1960 Title DIVISION PROD. SUPT.

The summary on this page is for the condition of the well at above date.

Commenced drilling OCTOBER 25, 1960 Finished drilling NOVEMBER 22, 1960

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 5775 to 5800 No. 4, from _____ to _____
No. 2, from 5938 to 5944 No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
13-3/8	48#	8RD	H-40	61'	NONE	NONE			
8-5/8	24#	8RD	J-55	1203'	REG. GUIDE	NONE			

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13-3/8	61'	100	PUMP		
8-5/8	1203'	700	PUMP		

SAMPLE DESCRIPTION

1000	Sample ditto, with green shaly sand.
10	Sample ditto.
20	Sample ditto, with trace brown siltstone.
30	Sample ditto, with inclusions in white sand.
40	100% sand, very coarse, sub-round, transparent, quartose.
50	Sample ditto.
60	90% sample ditto, with 10% brown shale, trace red siltstone.
70	90% red sandy siltstone, 10% brown shale.
80	60% red sandy siltstone, 20% green shale, 20% brown shale.
90	50% red sandy siltstone, 10% green shale, 30% brown shale.
1100	100% pink sand, sub-round, coarse, crystalline.
10	90% " , white sand, ditto, 10% dull brown shale.
20	Sand sample ditto, 5% dull brown shale, 5% green sandy shale.
30	Sample ditto.
40	Sample ditto, with trace brown siltstone.
50	Sample ditto.
60	Sample ditto.
70	90% pink, white sand, sub-round, coarse, crystalline.
80	40% sand sample ditto, 40% dull brown shale, 20% green sandy shale.
90	Sample ditto.
1200	Sample ditto.
10	Sample ditto.
20	Sample ditto.
30	Sample ditto.
40	Sample ditto.
50	Sample ditto.
60	45% chocolate brown shale, 25% green shale, 20% brown siltstone, 10% red siltstone.
1270 - 1420	Sample ditto.
1430	80% sandstone, buff-pink, fine grain, medium grain, tight, 20% siltstone.
1440 - 1600	Sample ditto.
1610	70% brown shale, sandy, silty, 20% sand, pink, tight, fine-medium grain, 10% sandy green shale and grey siltstone.
20	60% shale , brown, varigated, 10% sand, pink, white, tight fine-medium grain, 30% sandy green shale and grey siltstone.
30	80% dull red-brown shale, varigated, 10% sand, pink, white, tight, fine-medium grain, 10% sandy green shale and grey siltstone.
40	Sample ditto.
50	60% sand, pink-orange, medium-coarse grain, 20% brown sandy shale, trace brown red shale, 20% sandy green shale and grey siltstone.
60	50% sand sample ditto, 40% brown sandy shale, 20% sandy green shale and grey siltstone.
70	40% sand, pink, orange, white, 40% brown sandy shale, 20% green shaly sand.
80	Sand sample ditto (40%), 10% brown siltstone, 30% brown shale, 20% green shale and shaly sand.
90	40% sand sample ditto, 10% brown siltstone, 30% brown shale, dull red, 20% green shale and shaly sand.
1700	20% sand sample ditto, 60% brown shale and sandy shale, trace

SAMPLE DESCRIPTION

1710	10% sand, pink, orange, white, medium-coarse grain, 50% brown shale and sandy shale, 30% orange-red sandy siltstone, 10% dull red shale.
15	Sample ditto.
1720 - 2670	Sample ditto.
2680	80% shale, dull red-maroon, silty, hard, calcareous; 10% sandstone, light grey-white, medium-coarse grain, hard, tight, sub-angular, quartzose with abundant dark minerals, 5% lime, maroon-light green, dense; 5% shale, brown-dull green.
2690 - 2700	Sample ditto.
2710 - 2873	75% shale, dull red-maroon, 15% shale, green-brown-purple, 10% sandstone.
2873 - 2950	40% siltstone, 30% shale, red-maroon, 15% shale, green, 10% sandstone.
2950 - 3610	95% siltstone, red-maroon, sandy-shaly, micaceous in part; 5% red shale.
3610 - 4500	Siltstone and shale, green-brown-red.
4510	90% red, micaceous shale and siltstone, 10% green sandy shale, trace purple shale.
20	Sample ditto, with pieces limey siltstone.
30	90% red, waxy shale, pieces red siltstone, 10% green shale and micaceous shaly sand, pieces pyrite.
40	80% shale sample ditto, 20% green shale sample ditto, trace coal.
50	10% lime, green-cream, semi-chalky, fine crystalline, slightly fossiliferous, 90% sample ditto.
60	40% green shale and green micaceous sandy shale, 55% red shale as above, 5% lime as above.
70	5% light purple limey shale, 5% dense green-grey shale, 10% green micaceous sandy shale, 80% red micaceous shale, trace lime as above with slight stain.
80	80% shale, micaceous, red, with slight stain, 20% green shale as above, trace yellow shale, trace sand.
90	10% deep purple shale, 10% blocky green waxy shale, 70% red shale as above, 10% green shale.
4600	Trace tan dense, brittle lime, 10% brown micaceous siltstone, 80% red shale with siltstone, 10% green shale, sandy.
05	20% brown, micaceous shale and siltstone, 70% red shale as above, 5% green shale, 5% purple shale, trace cream lime as above.
10	Sample ditto, with trace coarse green shaly sand.
15	70% red micaceous shale, 15% brown micaceous siltstone, 5% dark grey shale, 10% green sandy micaceous shale.
20	Trace grey dense platy lime, trace anhydrite, 10% grey-black micaceous shale, 60% red shale, 30% green shale.
25	70% red micaceous shale, 20% brown micaceous siltstone and shale, 10% green shaly sand, and green shale.
30	20% grey-black dense blocky lime, 10% dark grey shale, 20% brown micaceous shale, 50% red micaceous shale and siltstone.
35	10% grey-buff blocky lime, slightly fossiliferous, remainder sample ditto.
40	30% brown shale, 5% lime as above, 60% red shale with siltstone, 5% green shale.

SAMPLE DESCRIPTION

4645	10% grey, slightly stained, 5% black, carbonaceous shale, 5% lime as above, 20% brown shale, 60% red shale.
50	90% colored shale, 10% varigated shale, trace lime as above.
55	5% light purple shale, angular, quartz grain embedded, trace lime, remainder sample ditto.
60	Trace anhydrite, 20% varigated shale, 10% brown shale, 20% green waxy shale, 5% tan dense lime, 45% red shale and siltstone.
65	80% dark red shale, limey in part, 10% purple shale, 10% brown micaceous shale.
70	Sample ditto, trace pink lime, trace blocky green lime.
75	40% grey-green shale, trace purple shale, 60% red shale.
80	5% pink lime, 60% deep orange shale, 35% green shale.
85	10% purple lime, 5% brown shale, 35% greenshale, 50% deep orange shale.
90	30% dark grey shale, 10% tan shale, 5% grey siltstone, 30% green shale, 25% red shale.
95	80% brown, grey, green shale, trace tan lime, 20% red shale.
4700	20% light green lime, 30% dark grey-black shale, waxy, 20% brown shale, 30% red shale, trace lime.
05	Trace tan dense lime, 80% dark shales, 20% red shale.
10	95% red shale, 10% grey, brown, green shale.
15	Sample ditto, with trace cream lime, dense, purple lime, tan lime.
20	Sample ditto, with trace cream lime, shale, trace grey lime.
25	5% grey-cream, dense, blocky lime, trace anhydrite, shale as above.
4730 - 4750	Sample ditto.
55	Lime, cream-grey, fossiliferous in part, trace white sand, medium grain.
60	100% cream-grey limestone, dense, highly fossiliferous, pieces grey, dense blocky lime.
4760 - 5300	Lime, cream-grey, silty, shaly, with sand stringers.
5300 - 5305	45% green-black shale, 45% brown-red shale, 10% lime, white, tan, green, dense, trace glauconitic sand.
10	50% grey-black, micaceous, fissile shale, 20% grey-brown blocky lime, 10% brown limey shale, 20% varicolored shale, trace anhydrite, trace cong. sand.
15	30% cream-buff lime, 40% dark micaceous shale, pieces white limey coarse grain sand, 30% light shale.
20	80% lime, cream, brown, grey, fine crystalline, trace fossiliferous lime, 20% dark shale.
25	Lime, grey, brown, platy, white lime, slightly fossiliferous, no cut (85%), 15% dark grey shale.
30	75% tan sucrosic lime, 25% dark grey-red shale.
35	75% grey-tan lime, fine crystalline, blocky, 25% dark grey shale.
40	70% dark grey micaceous shale. 30% lime as above.
45	75% dark grey micaceous shale, 25% lime as above, 5% white, green medium green shaly sand.
50	5% grey, micaceous siltstone, 80% green, grey green shale, lime as above, trace fossiliferous lime.
55	90% dark grey shale, 10% lime, trace limey sand.
60	95% dark grey shale, 5% lime.

SAMPLE DESCRIPTION

5365	90% dark grey shale, 10% cream lime.
70	90% shale, light green, lt. red, grey, 10% cream lime.
75	10% grey, tan lime, no cut, 90% shale.
80	Sample ditto.
85	20% lime as above, 80% grey green shale.
90	Sample ditto. No cut.
95	60% grey lime, slightly fossiliferous, 40% light red shale.
5400	Trace pink chert, 50% varicolored shale, 50% lime as above.
05	25% grey, cream lime, semi-chalky, fine crystalline, slightly fossiliferous, 75% grey-grey green shale, trace sand.
10	40% green micaceous shale, 15% black shale. Trace dark brown chert, 10% lime as above, 35% colored shale.
15	20% grey blocky fossiliferous lime, chert as above, 60% dark grey shale, 20% colored shale.
20	25% grey blocky, platy, calcareous lime, chert as above, 55% dark grey shale, 20% colored shale.
25	90% varicolored shale, trace conglomerate sand, 10% lime as above.
30	90% green-grey green shale, 10% lime as above.
35	Trace chert as above, 95% green, green-grey shale, 5% lime.
40	5% grey siltstone, remainder sample ditto.
45	Sample ditto.
50	Sample ditto.
55	10% brown shale, 60% dark green-grey shale, 10% green-grey siltstone, 20% lime, cream-grey, dense.
60	20% brown shale, 60% dark green blackshale, no cut, no stain, no fluorescence, trace interfossiliferous porosity, lime, interfossiliferous.
65	90% dark brown, black shale, 10% mottled grey lime.
70	Sample ditto, fossiliferous.
75	80% lime, cream, white, slightly fossiliferous, trace anhydrite, 20% black brown shale.
80	85% lime, cream, white, trace pink chert, 15% dark shale, fluorescence, no cut, no porosity.
85	Trace anhydrite, 80% lime, cream, white, dense, calcareous, fluorescent, no show.
90	60% brown-green shale, 40% lime as above.
95	80% grey, micaceous shale, silty, 20% lime as above.
5500	90% silty shale, micaceous, 10% lime as above.
05	70% varicolored shale, lime, green, grey, slightly calcareous, slightly fossiliferous.
10	10% grey, green siltstone, trace anhydrite, 40% lime, cream, grey, brown, slightly fossiliferous, pieces with dolomitic inclusions, 50% dark shale.
15	20% grey-green siltstone, 30% mottled grey-tan, dense lime. 50% varicolored micaceous shale.
20	Trace orange translucent chert, sample ditto.
25	10% grey, green sandy siltstone, pieces large angular quartz grain, 30% lime as above, 60% red, brown, grey micaceous shale.
30	Sample ditto.
35	20% grey, green siltstone and shaly granular sand, 30% lime,

SAMPLE DESCRIPTION

- 5535 cont'd
40 tan, dense, platy, 50% grey micaceous shale, no cut.
40 40% grey siltstone and highly micaceous shales, 20% cream-buff mottled lime, 40% red-brown, dark grey shales.
- 45 Sample ditto.
50 60% brown shale, 20% grey siltstone, 20% lime as above.
55 40% dark grey-brown, dense, fine crystalline lime, trace white lime, fossiliferous, 10% grey-green siltstone, 50% shale as above.
- 60 60% greenish-grey blocky lime, 5% siltstone, 5% large angular transparent quartz, 20% shale, 10% white sandy slightly fossiliferous lime, trace light purple shale.
- 65 Sample ditto.
70 Trace pink chert, 10% pink shale, 20% lime, white, semi-chalky, fine crystalline, calcareous, 70% shale, grey-red.
75 Lime, white, highly calcareous, no cut, 30%, 10% siltstone, green, 10% pink shale, 50% shale.
- 80 60% brown shale, 20% colored shale, 10% lime as above, 10% brown siltstone.
85 80% brown shale and grey shale, 10% colored shale, 10% lime as above, 10% brown siltstone.
- 90 Trace white translucent chert, trace tan translucent chert, 30% white calcareous lime, 10% brown, dense lime, 60% shale.
95 50% light tan speckled translucent chert, 30% lime, blocky, grey-brown, slightly fossiliferous, 10% lime, white, 55% shale.
- 5600 Sample ditto.
05 30% brown siltstone, trace chert as above, 30% lime, buff-grey, slightly fossiliferous, dense, 40% varicolored shale.
10 10% black shale, trace black lime, 40% lime as above, 10% grey-green siltstone, 40% varicolored shale.
- 15 75% light colored shale, 5% grey-black shale, 20% lime as above.
20 Sample ditto, pieces with splintery transparent chert.
25 10% light orange shale, trace white translucent chert, 40% dark grey-black shale, 50% grey, dense, fine crystalline lime.
- 30 Trace orange chert, 50% lime, grey-dark grey-tan (possible evidence of fracturing) slightly fossiliferous, crinoid stem, 50% dark shale.
- 35 75% grey lime, dense, calcareous in part, pieces foss, micro fine crystalline, trace anhydrite, 25% dark shale, no porosity or stain (visible)
- 40 60% lime as above and sample ditto, 15% grey-green siltstone, 25% dark shale.
- 45 Green shale with black brass, 10% green siltstone, lime as above (40%), 50% grey limy shale, trace fluorescence, no cut.
50 Trace tan chert, 50% grey-grey green limy shale, 30% lime, cream-tan-grey, 20% varicolored shale.
- 55 Trace fluorescent tan lime, micro crystalline (40%), green-blue-green shale (60%), trace tan chert, cream lime, slightly fossiliferous, grey dense platy lime.
- 60 Poor fluorescent lime, cream-grey, argillaceous, calcareous, 50%, trace translucent chert, 10% black shale, varicolored shale, 40%.
- 65 60% grey shale, 30% lime, grey-brown, dense, slightly fossiliferous, no cut, 10% varicolored shale.

SAMPLE DESCRIPTION

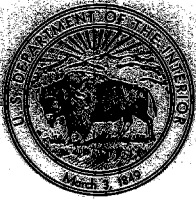
5670	Very slightly fluorescent 60% dark grey-black shale, 20% lime as above, 20% red shale.
75	75% dark grey-blue shale, 10% variegated shale, 15% lime as above.
80	75% shale ditto, 10% dark red shale, 15% lime as above.
85	95% black shale, 5% grey sandy lime.
90	60% black shale, 30% grey sandy lime, 10% varicolored shale.
95	40% black and light grey shale, 45% cream-grey sandy lime and micro crystalline fossiliferous lime.
5700	Sample ditto.
05	90% dark grey, micro crystalline lime, 10% black shale.
10	90% lime ditto, tract white fossiliferous chert, no cut.
15	90% light grey sandy lime, 10% grey shale, trace speckled translucent chert, slight gold fluorescence, no cut.
20	5% dark brown chert, 10% shale, black, fissile, 85% silty grey lime.
25	Cave sample - mostly shale, red-black.
30	90% cream-light grey fine crystalline lime, (10% silty), trace chert, 10% dark shale.
35	Sample ditto.
40	60% lime, cream-grey, semi-chalky, fine crystalline, 40% grey shale.
45	10% light purple shale, piece tan opaque chert, 90% lime, cream-grey, semi-chalky, fine crystalline, pieces slightly fossiliferous, trace porosity, piece dolomitic lime.
50	Trace white opaque chert, 90% lime, cream-grey, semi-chalky, fine crystalline, platy, 10% brown micaceous shale, (70% of lime dry grey micro crystalline)
55	Trace tan translucent chert, 10% grey siltstone, Lime sample ditto (90%), weathered.
60	20% grey-tan, fine crystalline lime, 70% lime, chalky, grey, trace tan chert.
65	Lime, cream-grey, semi-chalky, micro crystalline, trace inter-crystalline porosity, 10% tan dolomitic silty lime.
70	Crinoid stem, white, black shale, 30%, fragment white chert, lime as above.
75	Trace pink, tan, white chert, trace interfossiliferous porosity, 80% grey micro crystalline lime, 10% silty lime, 10% shale, dark.
80	Lime, cream-grey, fine grain (90%), pieces with dead oil stain, trace poor intergranular porosity, 5% tan opaque chert.
85	Trip sample - same.
90	60% blackfissile shale, pieces black opaque chert, slight cut, lime as above.
95	Crinoid stem, 30% black shale, 70% lime as above, trace porosity, dead oil stain.
5800	Trace dark grey lime with anhydritic inclusions and crinoid inclusions, 80% cream-light grey mottle lime, trace vuggy porosity, trace dark brown fossiliferous chert, fine crystalline grey dolomitic micaceous 20%.
05	Grey silty, dolomitic fine crystalline, crinoid stem, light grey grey chalky, fine crystalline, 95%, 5% white transparent chert, trace siltstone.
10	Lime, dark grey, fossiliferous, slightly calcareous, trace anhydrite, trace porosity.

SAMPLE DESCRIPTION

5815	Sample ditto.
20	Sample ditto.
25	Sample ditto.
30	Sample ditto.
35	Sample ditto.
40	Colored shale, green, clayey shale.
45	Shale, green-grey green, 10% dark shale, slightly micaceous, fissile, 90% red shale.
5845 - 74	Shale, black, carbonaceous.
5874 - 88	Lime, blocky, brown.
5888 - 95	Anhydrite.
5895 - 96	Dark dolomite and anhydrite.
97	Sample ditto.
98	Dolomite, dark brown, sucrosic with anhydrite stringers and inclusions, dense.
99	Dark black dolomitic shale, micaceous.
5900	Greyish-tan, fine crystalline dolomite with anhydrite inclusions, dense.
01	Dark black dolomitic shale.
02	Dark black micaceous shale.
03	Dolomite, brown, dense, micaceous, anhydrite dense.
04	Sample ditto.
05	Dark carbonaceous shale with carbon coal inclusions.
06	Grey-brown fine grain platy dolomite, anhydrite inclusions, dense.
07	Sample ditto with light stain (fluorescence) no porosity.
08	Dolomite, grey, fine grain, dense, micaceous.
09	Sample ditto.
10	Sample ditto.
11	Dark black carbonaceous shale, anhydrite inclusions, micaceous, tan dolomite inclusions.
12	Dolomite, very fine grain with dendritic pattern, crystalline structure.
13	Tan, sucrosic dolomite, anhydrite inclusions, trace fluorescence.
14	Same as 5912.
15	Grey, fine grain, dense, dolomitic lime.
16	Sample ditto with dendritic patterns.
17	Dolomitic lime, grey-brown, dense, slightly fossiliferous.
18	Sample ditto.
19	Sample ditto, with trace vuggy porosity, anhydritic, slightly quartzitic.
20	Sample ditto, fair fluorescence.
21	Dolomite, brown, sucrosic, dense, trace live stain.
22	Sample ditto, fair stain in spots, trace vuggy porosity, few anhydrite inclusions.
23	Sample ditto.
24	Sample ditto, with black shale nodules, fair fluorescence.
25	Dolomite, brown, sucrosic, fine crystalline, pinpoint porosity, slight stain.
26	Dolomite, brown, sucrosic, few vugs, no apparent stain.
27	Sample ditto with large brac.
28	Dolomite, sample ditto, fossiliferous, fair vuggy porosity, spotted fair stain, good dull fluorescence (gold).

SAMPLE DESCRIPTION

5929	Dolomite sample ditto, fossiliferous, fair vuggy porosity, fair stain, good dull gold fluorescence, anhydrite inclusions.
30	Dolomite sample ditto, fossiliferous, fair vuggy porosity, fair uniform stain, purple fluorescence.
31	Limy dolomite, grey-brown, sucrosic, good vuggy porosity, good stain, good fluorescence, good odor.
32	Sample ditto, with few anhydrite inclusions.
33	Sample ditto, secondary crystallization.
34	Grey limy dolomite, fine crystalline, dense, vuggy, porosity, good fluorescence, spotted fair stain, anhydrite inclusions.
35	Dolomite, tan, fine crystalline, sucrosic, fair-good vuggy porosity, good sat., good dull gold fluorescence.
36	Sample ditto.
37	Dolomite, tan, dense, spotted fair stain, pinpoint porosity.
38	Dolomite, tan, dense, slight stain, trace pinpoint porosity.
39	Dark shale stringer, dense, fine crystalline, shaly dolomite.
40	Dolomite, brown, sucrosic, silty.
41	Dolomite, sample ditto, with shale inc. - stylitic.
42 - 45	4' missed in core.
5945 - 50	Dolomite, grey, tan, fine crystalline, blocky, 10% green-grey siltstone.
55	Sample ditto, with shale stringer.
60	Shale, brown, brown siltstone, grey-dark shale, 80%, lime, cream-buff, dense.
65	Colored shale, trace black carbonaceous shale.
70	Sample ditto.
75	Dark black carbonaceous shale.
80	Sample ditto.
85	Sample ditto
90	Shale and light cream-grey lime, anhydrite.



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

P. O. Box 959
Farmington, New Mexico

March 17, 1961

Mr. H. L. Coonts
Utah Oil & Gas Conservation Commission
Moab, Utah

Dear Harvey:

Listed below are abandoned wells on which you inquired as to the approval of.

Well	Approval date
Superior Navajo A-14-12	6-28-60
Miami No. C-1 Tohonadla	8-23-60
Texaco Navajo 2-V	6-28-60
Petroleum Inc. No. 1 Navajo	Not approved

Very truly yours,

Richard B. Krahl
Richard B. Krahl

Clare - The above wells have
been P/A + locations approved.
You can run a copy by for
your files
Harry